SEQUENCE LISTING

(1) GENERAL INFORMATION:

    (i) APPLICANT: PE Corporation (NY)

    (ii) TITLE OF INVENTION: ENERGY TRANSFER DYES WITH ENHANCED FLUORESCENCE

    (iii) NUMBER OF SEQUENCES: 3

    (iv) CORRESPONDENCE ADDRESS:

        (A) ADDRESSEE: David J. Weitz, Wilson Sonsini Goodrich

& Rosati

        (B) STREET: 650 Page Mill Road

        (C) CITY: Palo Alto

        (D) STATE: California

        (E) COUNTRY: USA

        (F) ZIP: 94304-1050

    (v) COMPUTER READABLE FORM:

        (A) MEDIUM TYPE: 3.5 inch diskette

        (B) COMPUTER: IBM compatible

        (C) OPERATING SYSTEM: Microsoft Windows 3.1/DOS 5.0

        (D) SOFTWARE: Word 97

                ASCII (DOS) TEXT format

    (vi) CURRENT APPLICATION DATA:

        (A) APPLICATION NUMBER:

        (B) FILING DATE:

        (C) CLASSIFICATION:

    (vii) PRIOR APPLICATION DATA:

        (A) APPLICATION NUMBER: 08/642,330

(B) FILING DATE: May 3, 1996

(vii) PRIOR APPLICATION DATA:

    (A) APPLICATION NUMBER: 08/672,196

    (B) FILING DATE: June 27, 1996

(vii) PRIOR APPLICATION DATA:

    (A) APPLICATION NUMBER: 08/726,462

    (B) FILING DATE: October 4, 1996

(vii) PRIOR APPLICATION DATA:

    (A) APPLICATION NUMBER: 09/046,203

    (B) FILING DATE: March 23, 1998

(vii) PRIOR APPLICATION DATA:

    (A) APPLICATION NUMBER: 09/272,097

    (B) FILING DATE: March 18, 1999

    (C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

    (A) NAME: David J. Weitz

    (B) REGISTRATION NUMBER: 38,362

    (C) REFERENCE/DOCKET NUMBER: 16842-776

(ix) TELECOMMUNICATION INFORMATION:

    (A) TELEPHONE: (650) 493-9300

    (B) TELEFAX: (650) 493-6811

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

        (A) LENGTH: 1217 nucleotides

        (B) TYPE: nucleic acid

        (C) STRANDEDNESS: single

        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

```
GCCAAGCTTG   CATGCCTGCA   GGTCGACTCT   AGAGGATCCC        40

CGGGTACCGA   GCTCGAATTC   GTAATCATGG   TCATAGCTGT        80

TTCCTGTGTG   AAATTGTTAT   CCGCTCACAA   TTCCACACAA       120

CATACGAGCC   GGAAGCATAA   AGTGTAAAGC   CTGGGGTGCC       160

TAATGAGTGA   GCTAACTCAC   ATTAATTGCG   TTGCGCTCAC       200

TGCCCGCTTT   CCAGTCGGGA   AACCTGTCGT   GCCAGCTGCA       240

TTAATGAATC   GGCCAACGCG   CGGGGAGAGG   CGGTTTGCGT       280

ATTGGGCGCC   AGGGTGGTTT   TTCTTTTCAC   CAGTGAGACG       320

GGCAACAGCT   GATTGCCCTT   CACCGCCTGG   CCCTGAGAGA       360

GTTGCAGCAA   GCGGTCCACG   CTGGTTTGCC   CCAGCAGGCG       400

AAAATCCTGT   TTGATGGTGG   TTCCGAAATC   GGCAAAATCC       440

CTTATAAATC   AAAAGAATAG   CCCGAGATAG   GGTTGAGTGT       480

TGTTCCAGTT   TGGAACAAGA   GTCCACTATT   AAAGAACGTG       520

GACTCCAACG   TCAAAGGGCG   AAAAACCGTC   TATCAGGGCG       560

ATGGCCCACT   ACGTGAACCA   TCACCCAAAT   CAAGTTTTTT       600

GGGGTCGAGG   TGCCGTAAAG   CACTAAATCG   GAACCCTAAA       640

GGGAGCCCCC   GATTTAGAGC   TTGACGGGGA   AAGCCGGCGA       680

ACGTGGCGAG   AAAGGAAGGG   AAGAAAGCGA   AAGGAGCGGG       720

CGCTAGGGCG   CTGGCAAGTG   TAGCGGTCAC   GCTGCGCGTA       760

ACCACCACAC   CCGCCGCGCT   TAATGCGCCG   CTACAGGGCG       800

CGTACTATGG   TTGCTTTGAC   GAGCACGTAT   AACGTGCTTT       840

CCTCGTTGGA   ATCAGAGCGG   GAGCTAAACA   GGAGGCCGAT       880

TAAAGGGATT   TTAGACAGGA   ACGGTACGCC   AGAATCTTGA       920
```

```
GAAGTGTTTT   TATAATCAGT   GAGGCCACCG   AGTAAAAGAG        960

TCTGTCCATC   ACGCAAATTA   ACCGTTGTAG   CAATACTTCT       1000

TTGATTAGTA   ATAACATCAC   TTGCCTGAGT   AGAAGAACTC       1040

AAACTATCGG   CCTTGCTGGT   AATATCCAGA   ACAATATTAC       1080

CGCCAGCCAT   TGCAACAGGA   AAAACGCTCA   TGGAAATACC       1120

TACATTTTGA   CGCTCAATCG   TCTGAAATGG   ATTATTTACA       1160

TTGGCAGATT   CACCAGTCAC   ACGACCAGTA   ATAAAAGGGA       1200

CATTCTGGCC   AACAGAG                                   1217
```

(2) INFORMATION FOR SEQ ID NO: 2:

    (i) SEQUENCE CHARACTERISTICS:

        (A) LENGTH: 18 nucleotides

        (B) TYPE: nucleic acid

        (C) STRANDEDNESS: single

        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```
TGTAAAACGA   CGGCCAGT                                    18
```

(2) INFORMATION FOR SEQ ID NO: 3:

    (i) SEQUENCE CHARACTERISTICS:

        (A) LENGTH: 738 nucleotides

        (B) TYPE: nucleic acid

        (C) STRANDEDNESS: single

        (D) TOPOLOGY: linear

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

```
ATACGACTCA   CTATAGGGCG   AATTCGAGCT   CGGTACCCGG        40

GGATCCTCTA   GAGTCGACCT   GCAGGCATGC   AAGCTTGAGT        80

ATTCTATAGT   GTCACCTAAA   TAGCTTGGCG   TAATCATGGT       120
```

```
CATAGCTGTT    TCCTGTGTGA    AATTGTTATC    CGCTCACAAT    160
TCCACACAAC    ATACGAGCCG    GAAGCATAAA    GTGTAAAGCC    200
TGGGGTGCCT    AATGAGTGAG    CTAACTCACA    TTAATTGCGT    240
TGCGCTCACT    GCCCGCTTTC    CAGTCGGGAA    ACCTGTCGTG    280
CCAGCTGCAT    TAATGAATCG    GCCAACGCGC    GGGGAGAGGC    320
GGTTTGCGTA    TTGGGCGCTC    TTCCGCTTCC    TCGCTCACTG    360
ACTCGCTGCG    CTCGGTCGTT    CGGCTGCGGC    GAGCGGTATC    400
AGCTCACTCA    AAGGCGGTAA    TACGGTTATC    CACAGAATCA    440
GGGGATAACG    CAGGAAAGAA    CATGTGAGCA    AAAGGCCAGC    480
AAAAGGCCAG    GAACCGTAAA    AAGGCCGCGT    TGCTGGCGTT    520
TTTCCATAGG    CTCCGCCCCC    CTGACGAGCA    TCACAAAAAT    560
CGACGCTCAA    GTCAGAGGTG    GCGAAACCCG    ACAGGACTAT    600
AAAGATACCA    GGCGTTTCCC    CCTGGAAGCT    CCCTCGTGCG    640
CTCTCCTGTT    CCGACCCTGC    CGCTTACCGG    ATACCTGTCC    680
GCCTTTCTCC    CTTCGGGAAG    CGTGGCGCTT    TCTCATAGCT    720
CACGCTGTAG    GTATCTCA                               738
```